PATENT COOPERATION TREATY

PCT

TRANSLATION INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Application PEB	nt's or agent's file reference 439	FOR FURTHER ACTION	Ĭ	See Form PCT/IPEA/416					
Internati	onal application No.	International filing date (day)	month/year)	Priority date (day/month/year)					
PCT	/JP2005/002371	09.02.2005		10.02.2004					
Internati	International Patent Classification (IPC) or national classification and IPC								
F23C99/00(2006.01) , F23D11/12(2006.01), F23D14/02(2006.01) , F23D21/00(2006.01)									
Applicant EBARA CORPORATION									
1.	This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.								
2.	This REPORT consists of a total of	4	_ sheets, including t	this cover sheet.					
3.	This report is also accompanied by AN	NNEXES, comprising:							
	a. (sent to the applicant and	to the International Bureau) a	total of	sheets, as follows:					
	sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).								
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.								
	b. (sent to the International E	Bureau only) a total of (indicat	e type and number of	of electronic carrier(s))					
	, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).								
4.	This report contains indications relating	ng to the following items:							
	Box No. I Basis of the	report							
	Box No. II Priority								
	Box No. III Non-establis	hment of opinion with regard	to novelty, inventiv	e step and industrial applicability					
	Box No. IV Lack of unit	y of invention							
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement								
	Box No. VI Certain docu	iments cited							
Box No. VII Certain defects in the international application			tion						
Box No. VIII Certain observations on the international application									
Date of submission of the demand			f completion of this	report					
Name and mailing address of the IPEA/JP			ized officer						
Faccimile No.			ana Na						

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2005/002371

Box	No. I	I Basis of the report					
1.		h regard to the language, this report is based on the internationated under this item.	onal application in the language in which it was filed, unless othe	rwise			
		This report is based on translations from the original langum which is the language of a translation furnished for the pure international search (Rule 12.3 and 23.1(b))	age into the following languageposes of:	,			
		publication of the international application (Rule 12.	4)				
		international preliminary examination (Rule 55.2 and	Wor 55.3)				
2.	rece	th regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the reiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to s report):					
		the international application as originally filed/furnished the description:					
	Ш	•					
			as originally filed/fu				
		•	received by this Authority on				
	П		received by this radiiotity on				
	Ш	the claims:					
		nos.					
			as amended (together with any statement) under Ai				
			received by this Authority on				
	\Box	nos.*	received by this Authority on				
	Ш	the drawings:					
		sheets	as originally filed/fu	ırnished			
			received by this Authority on				
		sheets*	received by this Authority on				
		a sequence listing and/or any related table(s) – see Suppler	nental Box Relating to Sequence Listing.				
3.		The amendments have resulted in the cancellation of:					
		the description, pages					
		the claims, nos.					
			1				
		the sequence listing (specify):					
4.			dments annexed to this report and listed below had not been ma	ade, since			
		the description, pages					
		the claims, nos.					
		the drawings, sheets/figs					
		any table(s) related to sequence listing (specify):					
*	If ite	em 4 applies, some or all of those sheets may be marked "sup	perseded."				

International application No.		
PCT/JP2005/002371		

Box			ticle 35(2) with regard to novelty, inventive step or industrial applicability; oporting such statement	
1.	Statement			
	Novelty (N)	Claims	1-11	YES
		Claims		NO
	Inventive step (IS)	Claims	1-11	YES
		Claims		NO
	Industrial applicabilit	ty (IA) Claims	1-11	YES
		Claims		NO

- 2. Citations and explanations (Rule 70.7)
 - Document 1: JP 57-23770 Y2 (Osaka Gas Co., Ltd.), 24 May 1982
 - Document 2: EP 169431 A1 (Hitachi, Ltd.), 29 January 1986 & US 4898001 A1 & CA 1258379 A & JP 61-22106 A & JP 61-22127 A
 - Document 3: US 6481209 B1 (General Electric Co.), 19

 November 2002 & EP 1167881 A1 & JP 2002
 22171 A

The combustion apparatus with a configuration whereby the stream of combustion air that is supplied to the interior of the container initially encounters the fuel wash in an area that is separated from the fuel supply unit, whereafter said stream of combustion air subsequently encounters the fuel wake once again in an area in the vicinity of the aforementioned fuel supply unit;

and

the combustion apparatus comprising an annular container with an open end and a closed end, wherein the combustion air is supplied in a manner such that said combustion air has both a spiralling velocity component along the circumferential direction of the container and a velocity

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

component along the axial direction from the open end towards the closed end of the container, while the fuel is injected towards the aforementioned flow path in a manner such that said fuel has both a velocity component along the radial direction towards the outside of the container and a velocity component along the axial direction from the closed end towards the open end of the container

are not disclosed in any of the documents that are cited in the international search report. Furthermore, the inventions in question would not have been obvious to a person skilled in the art.